EAST SEARCH

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L#	Hits	Search String	Databases
L2	2	5,835,379.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	2	4,387,655.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L4	2	4,504,920.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L5	2	4,534,003.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L7	2	4,868,751.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L9	2	4,989,166.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L10	2	5,031,108.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L11	2	5,031,127.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L12	2	5,035,598.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L13	2	5,097,431.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L2	2	5,097,432.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	2	5,146,086.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L4	2	5,350,547.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L5	2	5,377,119.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L6	2	5,549,857.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L8	2	5,572,434.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L7	2	5,811,133.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L9	2	5,581,468.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L10	2	Niigata Engineering and Miyoshi and "injection molding"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L11	6	Toray Industries and Nakano and "injection molding"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	0	FANUC and Kamiguchi and "position of resin"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	0	Kamiguchi and "position of resin"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	0	METHOD OF MINITORING POSITION OF RESIN	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	0	92902748 and CAVITY	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	2	3,977,255.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	2	4,641,270.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	2	5,072,782.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	2	5,812,402.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	2	6,021,270.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L10	2	6,096,088.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L11	2	6,192,327.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L12	2	6,327,553.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L1	178	injection molding with simulat$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L2	891	injection molding with model$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	1044	1 or 2	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

L5	29	3 and (model$ with three-dimensional)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L6	15	1 and (three-dimensional)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L7	277	injection with mold$3 with simulat$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L8	16	7 and (three-dimensional)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L2	10	6,096,088.pn. or 5,581,468.pn. or 5,572,434.pn. or 5,811,133.pn. or 5,835,379.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	4	5,900,259.pn. or 5,377,119.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L4	14	2 or 3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L5	0	4 and (component with (mass or volume or density))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L6	277	injection with mold$3 with simulat$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L7	8	6 and (component with (mass or volume or density))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L8	16	6 and (component same (mass or volume or density))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

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Results of search set L5:(injection molding with (simulat$ or model$3)) and (model$ with three-dimensional)

Document	Kind Codes	Title	Issue Date	Current OR	Abstract
US 20020118229	A1	Information processing apparatus and method	20020829	345/771	
US 20020088600	A1	Tool and process for casting a shaped part for the production of a turbine blade	20020711	164/137	
US 20020076682	A1	Molecular models	20020620	434/277	
US 20010044651	A1	Expandable stent with sliding and locking radial elements	20011122	623/1.16	
US 6554882	B1	Rapid tooling sintering method and compositions therefor	20030429	75/228	
US 6532299	B1	System and method for mapping a surface	20030311	382/128	
US 6516241	B1	Method for gauging a mold cavity for injection molding	20030204	700/200	
US 6471520	B1	Model of complex structure and method of making the same	20021029	434/278	
US 6450393	B1	Multiple-material prototyping by ultrasonic adhesion	20020917	228/110.1	
US 6405095	B1	Rapid prototyping and tooling system	20020611	700/118	
US 6201508	B1	Injection-molded phased array antenna system	20010313	343/778	
US 6161057	A	Apparatus for analyzing a process of fluid flow, and a production method of an injection molde	20001212	700/197	
US 6048954	A	Binder compositions for laser sintering processes	20000411	526/328.5	
US 5947745	A	Atomic model of simultaneous electron-pair-sharing and allosterism	19990907	434/278	
US 5897592	A	Implantable articles with as-cast macrotextured surface regions and method of manufacturing	19990427	128/898	
US 5835379	A	Apparatus and method for analyzing a process of fluid flow, an apparatus and method for anal	19981110	700/197	
US 5687788	A	Implantable articles with as-cast macrotextured surface regions and method of manufacturing	19971118	164/456	
US 5658334	A	Implantable articles with as-cast macrotextured surface regions and method of manufacturing	19970819	128/898	
US 5137800	A	Production of three dimensional bodies by photopolymerization	19920811	430/281.1	
US 5097432	A	Evaluation method of flow analysis on molding of a molten material	19920317	703/9	
US 5097431	A	Evaluation method of flow analysis on molding of a molten material	19920317	703/9	

US 5071597 A	Plastic molding of articles including a hologram or other microstructure	19911210	264/1.34
US 4203250 A	Molded model airplane	19800520	446/61
JP 2002160266 A	METHOD AND APPARATUS FOR MOLDING THREE-DIMENSIONAL SHAPE OF MOLDED	20020604	
JP 2000218060 A	PORTRAIT MODEL AND MANUFACTURE THEREFOR	20000808	
JP 2000006219 A	INJECTION MOLDING PROCESS SIMULATION SYSTEM	20000111	
JP 09254194 A	PLAN SUPPORT APPARATUS	19970930	
JP 08099341 A	DEVICE AND METHOD FOR ANALYSIS OF FLUID FLOWING PROCESS, DEVICE AND ME	19960416	
EP 698467 A1	An apparatus and method for analyzing a process of fluid flow, an apparatus and method for a	19960228	

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"injection molding" and simulat*

Results:
Journal or Magazine = **JNL** Conference = **CNF** Standard = **STD**

1 **Multivariable self-tuning temperature control for plastic injection molding process**
Chi-Huang Lu; Ching-Chih Tsai;
Industrial Automation and Control: Emerging Technologies, 1995., International IEEE/IAS Conference on , 22-27 May 1995
Page(s): 702 -709

[Abstract] [PDF Full-Text (476 KB)] **IEEE CNF**

2 **Multiobjective optimization of a plastic injection molding process**
Seaman, C.M.; Desrochers, A.A.; List, G.F.;
Control Systems Technology, IEEE Transactions on , Volume: 2 Issue: 3 , Sept. 1994
Page(s): 157 -168

[Abstract] [PDF Full-Text (1012 KB)] **IEEE JNL**

3 **Research for process control of switching over from injection to holding and holding based on cavity pressure**
Wang Zhixin; Zhang Hua; Lu Yongxiang;
Industrial Technology, 1994. Proceedings of the IEEE International Conference on , 5-9 Dec. 1994
Page(s): 514 -518

[Abstract] [PDF Full-Text (256 KB)] **IEEE CNF**

4 **Time-d main m deling of comp site arrays f r underwater imaging**

Wojcik, G.L.; Vaughan, D.K.; Murray, V.; Mould, J., Jr.;
Ultrasonics Symposium, 1994. Proceedings., 1994 IEEE , Volume: 2 , 1-4 Nov. 1994
Page(s): 1027 -1032 vol.2

[Abstract] [PDF Full-Text (744 KB)] **IEEE CNF**

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5 **Nonlinear control of an electrohydraulic injection molding machine via iterative learning**
Havlicsek, H.; Alleyne, A.;
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Page(s): 176 -181 vol.1

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6 **Nonlinear modeling of an electrohydraulic injection molding machine**
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Page(s): 171 -175 vol.1

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Havlicsek, H.; Alleyne, A.;
Mechatronics, IEEE/ASME Transactions on , Volume: 4 Issue: 3 , Sept. 1999
Page(s): 312 -323

[Abstract] [PDF Full-Text (364 KB)] **IEEE JNL**

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8 **Optimization of gate and vent locations for resin infusion processes using genetic algorithms**
Mathur, R.; Advani, S.G.; Fink, B.K.;
American Control Conference, 1998. Proceedings of the 1998 , Volume: 4 , 24-26 June 1998
Page(s): 2176 -2180 vol.4

[Abstract] [PDF Full-Text (472 KB)] **IEEE CNF**

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9 **Mechatr nic micr devices**

Michel, F.; Ehrfeld, W.;
Micromechatronics and Human Science, 1999. MHS '99. Proceedings of 1999 International Symposium on , 23-26 Nov. 1999
Page(s): 27 -34

[Abstract] [PDF Full-Text (1724 KB)] **IEEE CNF**

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10 **Rapid resin mold with embedded thin film pressure/temperature sensors**
Luo, R.C.; Lin, C.E.; Chen, C.M.; Chen, Y.S.;
Industrial Electronics Society, 1999. IECON '99 Proceedings. The 25th Annual Conference of the IEEE , Volume: 3 , 29 Nov.-3 Dec. 1999
Page(s): 1301 -1306 vol.3

[Abstract] [PDF Full-Text (600 KB)] **IEEE CNF**

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11 **Teaching the manufacturing design cycle in a project course**
Anderson, J.C.;
Frontiers in Education, 2002. FIE 2002. 32nd Annual , Volume: 2 , 2002
Page(s): F4D-1 -F4D-5 vol.2

[Abstract] [PDF Full-Text (483 KB)] **IEEE CNF**

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12 **Design method of an intelligent oil-hydraulic system (load sensing oil-hydraulic system)**
Sakurai, Y.; Nakada, T.; Tanaka, K.;
Intelligent Control, 2002. Proceedings of the 2002 IEEE Internatinal Symposium on , 27-30 Oct. 2002
Page(s): 626 -630

[Abstract] [PDF Full-Text (707 KB)] **IEEE CNF**

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13 **Linear motor for ejector mechanism**
Bang, Y.B.; Lee, K.M.;
Electric Machines and Drives Conference, 2003. IEMDC'03. IEEE International , Volume: 3 , 1-4 June 2003
Page(s): 1702 -1708 vol.3

[Abstract] [PDF Full-Text (464 KB)] **IEEE CNF**

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14 **P siti n c ntr l f a plastic injecti n m ulding machine via feedback linearizati n**

Bona, B.; Giacomello, L.; Greco, C.; Malandra, A.;
Decision and Control, 1992., Proceedings of the 31st IEEE Conference on , 16-18 Dec. 1992
Page(s): 2591 -2593 vol.3

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15 **Using the computer as a tool in engineering technology programs**
Kitto, K.L.;
Frontiers in Education Conference, 1994. Twenty-fourth Annual Conference. Proceedings , 2-6 Nov. 1994
Page(s): 170 -174

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Results:
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1 **Microfabrication by hot embossing and injection molding in LIGA process**
Mekaru, H.; Yamada, T.; Sho En; Hattori, T.;
Microprocesses and Nanotechnology Conference, 2002. Digest of Papers. Microprocesses and Nanotechnology 2002. 2002 International , 6-8 Nov. 2002
Page(s): 192 -193

[Abstract] [PDF Full-Text (247 KB)] **IEEE CNF**

2 **Molded circuit interconnects: electronic packaging in the third dimension**
Zeiler, R.A.;
Electronic Manufacturing Technology Symposium, 1988, Fourth IEEE/CHMT European International , 13-15 June 1988
Page(s): 85 -88

[Abstract] [PDF Full-Text (412 KB)] **IEEE CNF**

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1 **Research for process control of switching over from injection to holding and holding based on cavity pressure**
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Industrial Technology, 1994. Proceedings of the IEEE International Conference on , 5-9 Dec. 1994
Page(s): 514 -518

[Abstract] [PDF Full-Text (256 KB)] **IEEE CNF**

2 **Shrinkage predictions of injection moulded parts in semi-crystalline polymers: experimental verification**
Gordillo, A.; Ariza, D.; Sanchez-Soto, M.; Maspoch, M.L.I.;
Emerging Technologies and Factory Automation, 1999. Proceedings. ETFA '99. 1999 7th IEEE International Conference on , Volume: 2 , 18-21 Oct. 1999
Page(s): 1281 -1287 vol.2

[Abstract] [PDF Full-Text (428 KB)] **IEEE CNF**

3 **Position control of a plastic injection moulding machine via feedback linearization**
Bona, B.; Giacomello, L.; Greco, C.; Malandra, A.;
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Ultrasonics Symposium, 1994. Proceedings., 1994 IEEE , Volume: 2 , 1-4 Nov. 1994
Page(s): 1027 -1032 vol.2

[Abstract] [PDF Full-Text (744 KB)] **IEEE CNF**

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7 **3D FDTD analysis of a SOT353 package containing a bipolar wideband cascode transistor using the compression approach**
Rittweger, M.; Werthen, M.; Kunisch, J.; Wolff, I.; Chall, P.; Balm, B.; Lok, P.;
Microwave Symposium Digest, 1995., IEEE MTT-S International , 16-20 May 1995
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12 **Composite curved linear array for sonar imaging: construction, testing, and comparison to FEM simulations**
Desilets, C.; Callahan, M.; Hayward, G.; Maclean, C.; Mukherjee, B.; Murrays, V.; Nikodym, L.; Pazol, B.; Sherrit, S.; Wojcik, G.;
Ultrasonics Symposium, 1997. Proceedings., 1997 IEEE , Volume: 2 , 5-8 Oct. 1997
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13 **Optimization of gate and vent locations for resin infusion processes using genetic algorithms**
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16 **A virtual prototyping approach to mold design**
Zouping Yin; Han Ding; Tso, S.K.; Youlun Xiong;
Systems, Man, and Cybernetics, 1999. IEEE SMC '99 Conference Proceedings. 1999 IEEE International Conference on , Volume: 4 , 12-15 Oct. 1999
Page(s): 463 -468 vol.4

[Abstract] [PDF Full-Text (588 KB)] **IEEE CNF**

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17 **Design method of an intelligent oil-hydraulic system (load sensing oil-hydraulic system)**
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Kitto, K.L.;
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Page(s): 170 -174

[Abstract] [PDF Full-Text (536 KB)] **IEEE CNF**

20 **“Rapid APG”, a new technique to reduce cycle times in the processing of epoxy casting systems**
Gehrig, M.;
Electrical Insulation Conference, 1997, and Electrical Manufacturing & Coil Winding Conference. Proceedings , 22-25 Sept. 1997
Page(s): 23 -29

[Abstract] [PDF Full-Text (548 KB)] **IEEE CNF**

21 **Study on the pressurized underfill encapsulation of flip chips**
Sejin Han; Wang, K.K.;
Components, Packaging, and Manufacturing Technology, Part B: Advanced Packaging, IEEE Transactions on [see also Components, Hybrids, and Manufacturing Technology, IEEE Transactions on] , Volume: 20 Issue: 4 , Nov. 1997
Page(s): 434 -442

[Abstract] [PDF Full-Text (248 KB)] **IEEE JNL**

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1 On the use of GPSS to model hierarchical control systems in a manufacturing environment 84%
Ronald J. Degen , Thomas J. Schriber
Proceedings of the 76 Bicentennial conference on Winter simulation December 1976
The concept of hierarchical, multilevel control systems is reviewed in the context of manufacturing systems, and the strata typically composing such control systems are discussed. The possibility of building simulation models of hierarchical systems, using FORTRAN routines to represent the higher-level strata, and GPSS to model the actual manufacturing steps themselves, is introduced. A hypothetical, nine-product toy-manufacturing system is described, and some of the specific features of a ...

2 A geometric algorithm for automated design of multi-stage molds for manufacturing multi-material objects 82%
Malay Kumar , Satyandra K. Gupta
Proceedings of the sixth ACM symposium on Solid modeling and applications May 2001

This paper describes a geometric algorithm for automated design of multi-stage molds for manufacturing multi-material objects. In multi-stage molding process, the desired multi-material object is produced by carrying out multiple molding operations in a sequence, adding one material in the target object in each mold-stage. We model multi-material objects as an assembly of single-material components. Each mold-stage can only add one type of material. Therefore, we need a sequence of mold-stage ...

3 Intelligent multimedia tutoring systems 82%
Beverly Park Woolf
Communications of the ACM April 1996
Volume 39 Issue 4

4 A new algorithm for computing shortest paths in weighted planar subdivisions (extended abstract) 80%
Christian S. Mata , Joseph S. B. Mitchell

Proceedings of the thirteenth annual symposium on Computational geometry August 1997

5 A knowledge-based decision support system for flexible manufacturing 77%
D. H. Norrie , R. Fauvel , B. R. Gaines , M. Mowchenko
Proceedings of the second international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 June 1989
A decision support system is under development for planning in flexible manufacturing, using a consortium of knowledge-based systems utilizing expert system, database, and simulation techniques. An object-oriented approach is incorporated. There are six basic modules: machine selection optimizer; database; production flow analyzer; rapid modelling techniques system; FMS simulator; supervisor.The prototype of the machine selection optimizer has been developed, tested, and is under ...

6 Planning as feedback to designers 77%
J. Mills , Y. Sekine , E. Wysocki , W. Furth , K. Otwell , S. Jameson , A. Burzio
Proceedings of the second international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 June 1989

7 Future of simulation: The expanding role of simulation in future manufacturing 77%
Charles McLean , Swee Leong
Proceedings of the 33nd conference on Winter simulation December 2001
Simulation technology holds tremendous promise for reducing costs, improving quality, and shortening the time-to-market for manufactured goods. Unfortunately, this technology still remains largely underutilized by industry today. This paper suggests benefits to industry resulting from the widespread, pervasive implementation of manufacturing simulation technology. Potential simulation impact areas are closely intertwined with strategic manufacturing. Yet, a number of factors currently inhibit th ...

8 Parallel processing for 2-1/2D machining simulation 77%
A. D. Spence , Z. Li
Proceedings of the sixth ACM symposium on Solid modeling and applications May 2001

Continued progress in the area of solid modeler based machining process simulation is hindered by the complexity growth that occurs for a large number of tool paths *n*. For this reason, many researchers have adopted the Z-buffer approach. Boundary-representation (B-rep), however, remains the dominant choice for commercial modelers. This paper begins by reviewing the current state of solid modeler based machining simulation. Using an industrial example, the growth rate, for a simple feed ...

9 Linux Means Business: IMEC/NIT 77%
Linux Journal January 1996

10 An overview of fully integrated digital manufacturing technology 77%
Scott Freedman
Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 1 December 1999

11 Accurate computation of the medial axis of a polyhedron 77%
Tim Culver , John Keyser , Dinesh Manocha
Proceedings of the fifth ACM symposium on Solid modeling and applications June 1999

12 Overview of microelectromechanical systems and design processes 77%
William C. Tang
Proceedings of the 34th annual conference on Design automation conference June 1997

13 Machine interpretation of CAD data for manufacturing applications 77%
Qiang Ji , Michael M. Marefat
ACM Computing Surveys (CSUR) September 1997
Volume 29 Issue 3
Machine interpretation of the shape of a component for CAD databases is an important problem in CAD/CAM, computer vision, and intelligent manufacturing. It can be used in CAD/CAM for evaluation of designs, in computer vision for machine recognition and machine inspection of objects, and in intelligent manufacturing for automating and integrating the link between design and manufacturing. This topic has been an active area of research since the late '70s, and a significant number of computat ...

14 Implementing shared manufacturing services on the World-Wide Web 77%
J. W. Erkes , K. B. Kenny , J. W. Lewis , B. D. Sarachan , M. W. Sobolewski , R. N. Sum
Communications of the ACM February 1996
Volume 39 Issue 2

15 Knowledge representation and control structure based on three-dimensional symbolic skeletons for CAD/CAM integration 77%
I. C. You , C. N. Chu , R. L. Kashyap
Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 June 1990
A formalism for symbolic representation of three-dimensional model and its use for knowledge representation and control structure are presented. A robust feature-based design (RFBD) approach has been developed to represent three dimensional objects and to provide meaningful geometric and topological properties for manufacturability evaluation. For knowledge acquisition, binary syntactic primitive pairs have been established for high level symbolic reasoning. Symbolic reasoning tables provid ...

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1 A geometric algorithm for automated design of multi-stage molds for manufacturing multi-material objects 82%
Malay Kumar , Satyandra K. Gupta
Proceedings of the sixth ACM symposium on Solid modeling and applications May 2001

This paper describes a geometric algorithm for automated design of multi-stage molds for manufacturing multi-material objects. In multi-stage molding process, the desired multi-material object is produced by carrying out multiple molding operations in a sequence, adding one material in the target object in each mold-stage. We model multi-material objects as an assembly of single-material components. Each mold-stage can only add one type of material. Therefore, we need a sequence of mold-stage ...

2 A knowledge-based decision support system for flexible manufacturing 77%
D. H. Norrie , R. Fauvel , B. R. Gaines , M. Mowchenko
Proceedings of the second international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 June 1989
A decision support system is under development for planning in flexible manufacturing, using a consortium of knowledge-based systems utilizing expert system, database, and simulation techniques. An object-oriented approach is incorporated. There are six basic modules: machine selection optimizer; database; production flow analyzer; rapid modelling techniques system; FMS simulator; supervisor.The prototype of the machine selection optimizer has been developed, tested, and is under ...

3 Future of simulation: The expanding role of simulation in future manufacturing 77%
Charles McLean , Swee Leong
Proceedings of the 33nd conference on Winter simulation December 2001
Simulation technology holds tremendous promise for reducing costs, improving quality, and shortening the time-to-market for manufactured goods. Unfortunately, this technology still remains largely underutilized by industry today. This paper suggests benefits to industry resulting

from the widespread, pervasive implementation of manufacturing simulation technology. Potential simulation impact areas are closely intertwined with strategic manufacturing. Yet, a number of factors currently inhibit th ...

4 Accurate computation of the medial axis of a polyhedron 77%
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Proceedings of the 34th annual conference on Design automation conference June 1997

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1 DYPP—A VLSI supercomputer architecture supporting two-level fault tolerance, program graph injection and data levitation concepts 97%
Marius V. A. H?ncu , Kenneth C. Smith
Proceedings of the 1986 ACM fourteenth annual conference on Computer science February 1986

2 A geometric algorithm for automated design of multi-stage molds for manufacturing multi-material objects 84%
Malay Kumar , Satyandra K. Gupta
Proceedings of the sixth ACM symposium on Solid modeling and applications May 2001

This paper describes a geometric algorithm for automated design of multi-stage molds for manufacturing multi-material objects. In multi-stage molding process, the desired multi-material object is produced by carrying out multiple molding operations in a sequence, adding one material in the target object in each mold-stage. We model multi-material objects as an assembly of single-material components. Each mold-stage can only add one type of material. Therefore, we need a sequence of mold-stage ...

3 Intelligent multimedia tutoring systems 84%
Beverly Park Woolf
Communications of the ACM April 1996
Volume 39 Issue 4

4 On the use of GPSS to model hierarchical control systems in a manufacturing environment 83%
Ronald J. Degen , Thomas J. Schriber
Proceedings of the 76 Bicentennial conference on Winter simulation December 1976
The concept of hierarchical, multilevel control systems is reviewed in the context of

manufacturing systems, and the strata typically composing such control systems are discussed. The possibility of building simulation models of hierarchical systems, using FORTRAN routines to represent the higher-level strata, and GPSS to model the actual manufacturing steps themselves, is introduced. A hypothetical, nine-product toy-manufacturing system is described, and some of the specific features of a ...

5 Coherent network interfaces for fine-grain communication 83%

Shubhendu S. Mukherjee , Babak Falsafi , Mark D. Hill , David A. Wood

ACM SIGARCH Computer Architecture News , Proceedings of the 23rd annual international symposium on Computer architecture May 1996

Volume 24 Issue 2

Historically, processor accesses to memory-mapped device registers have been marked uncachable to insure their visibility to the device. The ubiquity of snooping cache coherence, however, makes it possible for processors and devices to interact with cachable, coherent memory operations. Using coherence can improve performance by facilitating burst transfers of whole cache blocks and reducing control overheads (e.g., for polling).This paper begins an exploration of network interfaces (NIs) that u ...

6 Decoupled hardware support for distributed shared memory 83%

Steven K. Reinhardt , Robert W. Pfile , David A. Wood

ACM SIGARCH Computer Architecture News , Proceedings of the 23rd annual international symposium on Computer architecture May 1996

Volume 24 Issue 2

This paper investigates hardware support for fine-grain distributed shared memory (DSM) in networks of workstations. To reduce design time and implementation cost relative to dedicated DSM systems, we decouple the functional hardware components of DSM support, allowing greater use of off-the-shelf devices.We present two decoupled systems, Typhoon-0 and Typhoon-1. Typhoon-0 uses an off-the-shelf protocol processor and network interface; a custom access control device is the only DSM-specific hard ...

7 A new algorithm for computing shortest paths in weighted planar subdivisions (extended abstract) 82%

Christian S. Mata , Joseph S. B. Mitchell

Proceedings of the thirteenth annual symposium on Computational geometry August 1997

8 Quo Vadimus: computer science in a decade 80%

J. F. Traub

Communications of the ACM June 1981

Volume 24 Issue 6

A panel discussion was held during the third biennial meeting of chairmen of Ph.D.-granting computer science departments in June, 1978 at Snowbird, Utah, a meeting sponsored by the Computer Science Board. Invitees from industry and government were also present. A report was prepared from tapes made of the discussion (Department of Computer Science, Carnegie-Mellon University: Report #CMU-CS-80-127, June 1980). It contained all the prepared statements of the panelists, lightly edited, and th ...

9 On the status of design automation in canada 80%

W. M. vanCleemput , R. F. Allum , J. G. Linders

Proceedings of the 12th design automation conference January 1975

An important characteristic of Canadian industry is that it is largely foreign-dominated. A result of this is that many products, that are manufactured in Canada, are designed elsewhere. Furthermore, since the development of design automation techniques and systems usually affects the whole corporation, this development is almost always done in the country in which its headquarters is established. As an example, consider the computer industry: although some major computer manufacturers have ...

10 A diagnostic expert system for analyzing multiple-failure transients in nuclear power plants 80%
Robert P. Martin , B. Nassersharif
Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 June 1988
CATALISP (Computer Aided Transient Analysis coded in Lisp) is a prototype expert system which is the result of a project investigating and implementing event confidence-levels (used by reactor safety experts in reactor transient analysis) in the form of an expert system. Currently, CATALISP is designed to diagnose reactor transients by analyzing simulated sensor and plant thermal hydraulic information from a system simulation. CATALISP uses a knowledge base of existing emergency nuclear pla ...

11 Maniplicons in ThinkerToy 80%
Steven H. Gutfreund
ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications December 1987
Volume 22 Issue 12
ThinkerToy is a graphical environment for modeling decision support problems. It provides a tableau on which such problems as landscape planning, service scheduling, and statistical analysis can be modeled and analyzed. Normally, complex mathematical and statistical modeling techniques are needed to perform meaningful analysis. ThinkerToy uses graphical icons with concrete physical properties to replace mathematical relationships and properties. The key construct in this methodology is the ...

12 Exploiting the map metaphor in a tool for software evolution 80%
William G. Griswold , Jimmy J. Yuan , Yoshikiyo Kato
Proceedings of the 23rd international conference on Software engineering July 2001

Software maintenance and evolution are the dominant activities in the software lifecycle. Modularization can separate design decisions and allow them to be independently evolved, but modularization often breaks down and complicated global changes are required. Tool support can reduce the costs of these unfortunate changes, but current tools are limited in their ability to manage information for large-scale software evolution. In this paper we argue that the map metaphor can serve as an org ...

13 The SNAP-1 parallel AI prototype 80%
R. F. DeMara , D. I. Moldovan
ACM SIGARCH Computer Architecture News , Proceedings of the 18th annual international symposium on Computer architecture April 1991
Volume 19 Issue 3

14 A methodology for tuning and verifying package simulation models 77%

David C. Efron
Proceedings of the 1975 symposium on Simulation of computer systems August 1975
The computer system simulation packages are generally regarded as being capable of producing viable performance projections quickly and cheaply relative to the time and cost of programming unique simulation models. Many users also recognize that simulation models cast in the prescribed molds of the packages may be subject to various errors. They will therefore consider all results as coarse indications of expected performance levels. In contrast, this paper demonstrates how the p ...

15 An integrated analytical system for global range planning 77%
T. E. Williamson
Proceedings of the 1967 22nd national conference January 1967
The mental image formed upon the first attempt to focus on a problem of the scope involved in systematizing the planning and scheduling functions of a space vehicle tracking range is truly overwhelming (Figure 1). Further investigation, however, while not diminishing the elephantine proportions of the problem, reveals considerable detail of importance. First, there was already at hand at the Air Force Eastern Test Range specific ADP capabilities that could be used almost directly ...

16 The future of optical fibers for data communications 77%
Tingye Li
Proceedings of the fifth data communications symposium September 1977
Optical-fiber transmission lines appear attractive for a variety of communication applications in which twisted copper pairs and coaxial cables are now used. These applications range from on-premises data links and equipment wiring to interoffice and intercity telecommunications trunks. Experiments to explore the technical feasibility of glass fibers in these areas are presently in progress. This talk summarizes the current state of research on optical fibers, fiberguide cables and ...

17 Fast detection of communication patterns in distributed executions 77%
Thomas Kunz , Michiel F. H. Seuren
Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research November 1997
Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

18 Stride prefetching by dynamically inspecting objects 77%
Tatsushi Inagaki , Tamiya Onodera , Hideaki Komatsu , Toshio Nakatani
ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2003 conference on Programming language design and implementation June 2003
Volume 38 Issue 5
Software prefetching is a promising technique to hide cache miss latencies, but it remains challenging to effectively prefetch pointer-based data structures because obtaining the memory address to be prefetched requires pointer dereferences. The recently proposed stride prefetching

overcomes this problem, but it only exploits *inter-iteration* stride patterns and relies on an off-line profiling method.We propose a new algorithm for stride prefetching which is intended for use in a dynamic ...

19 New techniques for ray tracing procedurally defined objects 77%

James T. Kajiya

Proceedings of the 10th annual conference on Computer graphics and interactive techniques July 1983

We present new algorithms for efficient ray tracing of three procedurally defined objects: fractal surfaces, prisms, and surfaces of revolution. The fractal surface algorithm performs recursive subdivision adaptively. Subsurfaces which cannot intersect a given ray are culled from further consideration. The prism algorithm transforms the three dimensional ray-surface intersection problem into a two dimensional ray-curve intersection problem, which is solved by the method of strip trees. The ...

20 The architecture and programming of the Ametek series 2010 multicomputer 77%

C. L. Seitz , W. C. Athas , C. M. Flaig , A. J. Martin , J. Seizovic , C. S. Steele , W-K. Su

Proceedings of the third conference on Hypercube concurrent computers and applications: Architecture, software, computer systems, and general issues - Volume 1 January 1988

During the period following the completion of the Cosmic Cube experiment [1], and while commercial descendants of this first-generation multicomputer (message-passing concurrent computer) were spreading through a community that includes many of the attendees of this conference, members of our research group were developing a set of ideas about the physical design and programming for the second generation of medium-grain multicomputers. Our principal goal was to improve by as much ...

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22 Planning as feedback to designers 77%
J. Mills , Y. Sekine , E. Wysocki , W. Furth , K. Otwell , S. Jameson , A. Burzio
Proceedings of the second international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 June 1989

23 Future of simulation: The expanding role of simulation in future manufacturing 77%
Charles McLean , Swee Leong
Proceedings of the 33nd conference on Winter simulation December 2001
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24 Parallel processing for 2-1/2D machining simulation 77%

A. D. Spence , Z. Li
Proceedings of the sixth ACM symposium on Solid modeling and applications May 2001

Continued progress in the area of solid modeler based machining process simulation is hindered by the complexity growth that occurs for a large number of tool paths *n*. For this reason, many researchers have adopted the Z-buffer approach. Boundary-representation (B-rep), however, remains the dominant choice for commercial modelers. This paper begins by reviewing the current state of solid modeler based machining simulation. Using an industrial example, the growth rate, for a simple feed ...

25 Control of initialization bias in multivariate simulation response 77%
Lee W. Shruben
Communications of the ACM April 1981
Volume 24 Issue 4

26 New Techniques for Ray Tracing Procedurally Defined Objects 77%
James T. Kajiya
ACM Transactions on Graphics (TOG) July 1983
Volume 2 Issue 3

27 Visualizing multivalued data from 2D incompressible flows using concepts from painting 77%
R. M. Kirby , H. Marmanis , D. H. Laidlaw
Proceedings of the conference on Visualization '99: celebrating ten years October 1999
We present a new visualization method for 2d flows which allows us to combine multiple data values in an image for simultaneous viewing. We utilize concepts from oil painting, art, and design as introduced in [1] to examine problems within fluid mechanics. We use a combination of discrete and continuous visual elements arranged in multiple layers to visually represent the data. The representations are inspired by the brush strokes artists apply in layers to create an oil painting. We displa ...

28 Linux Means Business: IMEC/NIT 77%
Linux Journal January 1996

29 An overview of fully integrated digital manufacturing technology 77%
Scott Freedman
Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 1 December 1999

30 Accurate computation of the medial axis of a polyhedron 77%
Tim Culver , John Keyser , Dinesh Manocha
Proceedings of the fifth ACM symposium on Solid modeling and applications June 1999

31 Overview of microelectromechanical systems and design processes 77%
William C. Tang
Proceedings of the 34th annual conference on Design automation conference June 1997

32 Interface to architecture: integrating technology into the environment in the Brain Opera 77%
Maggie Orth
Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques August 1997

33 Machine interpretation of CAD data for manufacturing applications 77%
Qiang Ji , Michael M. Marefat
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34 Fabrication and performance of mesa interconnect 77%
L. Carley , D. Guillou , S. Santhanam
Proceedings of the 1996 international symposium on Low power electronics and design August 1996

35 Synchronization hardware for networks of workstations: performance vs. cost 77%
Rahmat S. Hyder , David A. Wood
Proceedings of the 10th international conference on Supercomputing January 1996

36 Rapid design and manufacture of wearable computers 77%
S. Finger , M. Terk , E. Subrahamanian , C. Kasabach , F. Prinz , D. P. Siewiorek , A. Smailagic , J. Stivoric , L. Weiss
Communications of the ACM February 1996
Volume 39 Issue 2

37 Implementing shared manufacturing services on the World-Wide Web 77%
J. W. Erkes , K. B. Kenny , J. W. Lewis , B. D. Sarachan , M. W. Sobolewski , R. N. Sum
Communications of the ACM February 1996
Volume 39 Issue 2

38 The S/Net's Linda kernel 77%
Nicholas Carriero , David Gelernter
ACM Transactions on Computer Systems (TOCS) May 1986
Volume 4 Issue 2
Linda is a parallel programming language that differs from other parallel languages in its simplicity and in its support for distributed data structures. The S/Net is a multicomputer, designed and built at AT&T Bell Laboratories, that is based on a fast, word-parallel bus interconnect. We describe the Linda-supporting communication kernel we have implemented on the S/Net. The implementation suggests that Linda's unusual shared-memory-like communication primitives can be made to run well in ...

39 Representing monads 77%

Andrzej Filinski

Proceedings of the 21st ACM SIGPLAN-SIGACT symposium on Principles of programming languages February 1994

We show that any monad whose unit and extension operations are expressible as purely functional terms can be embedded in a call-by-value language with “composable continuations”. As part of the development, we extend Meyer and Wand's characterization of the relationship between continuation-passing and direct style to one for continuation-passing vs. general “monadic” style. We further show that the composable-continuations construct can itself be represented using o ...

40 DAIDA: an environment for evolving information systems 77%

M. Jarke , J. Mylopoulos , J. W. Schmidt , Y. Vassiliou

ACM Transactions on Information Systems (TOIS) January 1992

Volume 10 Issue 1

We present a framework for the development of information systems based on the premise that the knowledge that influences the development process needs to somehow be captured, represented, and managed if the development process is to be rationalized. Experiences with a prototype environment developed in ESPRIT project DAIDA demonstrate the approach. The project has implemented an environment based on state-of-the-art languages for requirements modeling, design and implementation of informat ...

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Dick Youngblood, Staff Writer. **Star Tribune.** Minneapolis, Minn.: Apr 20, 2003. p. 8.D
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Alice Blanco. **Plastics Engineering.** Brookfield Center: Feb 2003. Vol. 59, Iss. 2; p. 83 (2 pages)
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6. **Will the mold fill? Simulation software tells**
Max Molenaar. **Machine Design.** Cleveland: Nov 7, 2002. Vol. 74, Iss. 21; p. 112 (2 pages)
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Anonymous. **Foundry Management & Technology.** Cleveland: Oct 2002. Vol. 130, Iss. 10; p. 9 (1 page)
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Chris Pope. **Professional Engineering.** Bury St. Edmunds: Sep 18, 2002. Vol. 15, Iss. 17; p. 28 (2 pages)
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9. **Reducing shrinkage and warpage for printer parts by injection molding simulati n analysis**
Shijun Ni. **Journal of Injection Molding Technology.** Brookfield: Sep 2002. Vol. 6, Iss. 3; p. 177 (10 pages)

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Ruihua Han, Mahesh Gupta, David L Crouthamel. **Journal f Injection M lding Technology.** Brookfield: Sep 2002. Vol. 6, Iss. 3; p. 203 (17 pages)
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Hope Molinaro. **Plastics Engineering.** Brookfield Center: Sep 2002. Vol. 58, Iss. 9; p. 54 (1 page)
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12. **Computer simulation of syndiotactic polystyrene crystallization during injection molding**
Richard D Sudduth, Ramakrishna Dugyala, James Garber, Kevin Nichols, Qin Sheng. **Journal of Injection Molding Technology.** Brookfield: Jun 2002. Vol. 6, Iss. 2; p. 120 (23 pages)
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13. **Process simulation and optimization for injection molding--experimental verifications and field applications**
Lih-Sheng Turng, Michael Peic, Dave K Bradley. **Journal of Injection Molding Technology.** Brookfield: Jun 2002. Vol. 6, Iss. 2; p. 143 (14 pages)
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14. **Simulation software covers more processes**
Canadian Plastics. Don Mills: May 2002. Vol. 60, Iss. 5; p. 43
Full text

15. **CAE simulationTool**
Anonymous. **Plastics Engineering.** Brookfield Center: May 2002. Vol. 58, Iss. 5; p. 30 (1 page)
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16. **Experimental measurement and simulation of particle migration in pressure-driven tube flow: Applications to flow in runners**
Y C Lam, X Chen, K W Tan, M A Jan, et al. **Journal of Injection Molding Technology.** Brookfield: Mar 2002. Vol. 6, Iss. 1; p. 45 (13 pages)
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Hope Molinaro. **Plastics Engineering.** Brookfield Center: Jan 2002. Vol. 58, Iss. 1; p. 10 (1 page)
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Louis G Reifschneider. **Journal of Injection Molding Technology.** Brookfield: Dec 2001. Vol. 5, Iss. 4; p. 208 (16 pages)
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19. **New collaborations advance plastics training software**
Anonymous. **Plastics Technology.** Cincinnati: Aug 2001. Vol. 47, Iss. 8; p. 62 (1 page)
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20. **Analysis of the internal structure of injection molded parts based on a three-dimensional**

simulation software
S Hoffmann, W Michaeli. **J urnal f Injecti n Molding Techn l gy.** Brookfield: Jun 2001. Vol. 5, Iss. 2; p. 98 (7 pages)

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22. **Simulation of injection molding into rapid-prototyped molds**
Rajitha Aluru, Michael Keefe, Suresh Advani. **Rapid Prototyping Journal.** Bradford: 2001. Vol. 7, Iss. 1; p. 42
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23. **Simulation of polymer removal from a powder injection molding compact by thermal debinding**
Y C Lam, Ying Shengjie, S C M Yu, K C Tam. **Metallurgical and Materials Transactions.** Warrendale: Oct 2000. Vol. 31A, Iss. 10; p. 2597 (10 pages)
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24. **CAD & CAE**
Matthew H Naitove. **Plastics Technology.** Cincinnati: Aug 2000. Vol. 46, Iss. 8; p. 65 (3 pages)
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25. **Moldflow Launches C-MOLD 2000.7 Software; Latest Release Offers Robust Functionality to Enhance Productivity**
Business Editors/High Tech Writers. **Business Wire.** New York: Jun 19, 2000. p. 1
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26. **Moldflow Corporation and CACO Pacific Corporation Announce Cooperative Technology Agreement for Factory Floor Applications**
Business Editors. **Business Wire.** New York: Jun 9, 2000. p. 1
Full text

27. **Simulation and experimental studies of a non-return valve performance during injection molding**
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